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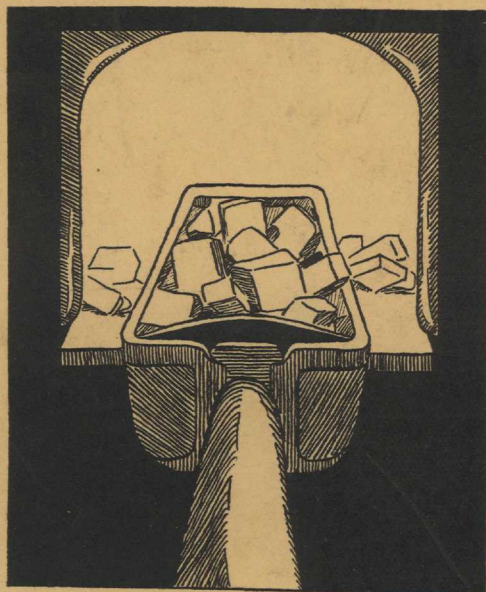
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THE OHIO STATE ENGINEER



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"IF"

AUDACIOUS ENGINEERS are filling our popular publications with descriptions of the cities of the future. We have all seen their prophetic pictures: tiers of gigantic buildings rising one hundred, two hundred, three hundred stories above four or five levels of street.

All the ingenuity of these prophets is required to explain away, even theoretically, certain problems of construction. *IF* this material can be made to bear so much more strain; *IF* means can be devised to ensure a solid foundation — *IF, IF*.

One important detail, however, is always taken for granted. "There will be express elevators," they say, "from the various street levels to the hundredth and two hundredth floor." *THERE WILL BE!* We find no "*if*" in connection with the elevators.

For all builders have come to expect a perfect solution of every interior transportation problem, no matter how audacious. As the cities of the future are being planned, the OTIS COMPANY expects that dependable vertical transportation will continue to be taken for granted by architects, engineers, and the public.



Mr. Hugh Ferriss has visioned many outstanding gigantic "buildings of the future." This reproduction is particularly appropriate at this time and special permission has been granted to use this illustration in college publications.

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CONTRACTORS naturally expect an organization which builds dependable pavers, mixers, gasoline shovels and cranes, to build staunch draglines. Draglines, more than any other machine, are often used far from the sources of supply where dependability is all important.

Heavy Duty construction, which has given the Koehring Paver its predominant position among contractors in all parts of the country, is built into the Koehring Gasoline Dragline. Along with this rugged construction, Koehring design has accomplished simplicity and accessibility. There are no service stations in the swamps — replacements must be quick and easy!

In reclamation service, irrigation or drainage work, the Koehring Dragline with fast, smooth action under Finger Tip control advances mile after mile, making straight, accurate ditches without a delay for repairs.

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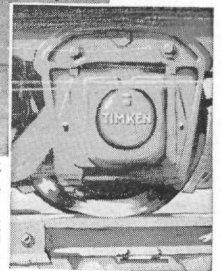
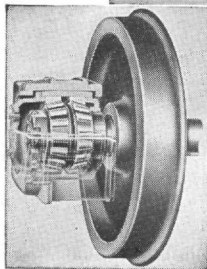
"Concrete — Its Manufacture and Use" is a 210 page treatise on the uses of concrete, including 26 pages of tables of quantities of materials required in concrete paving work. To engineering students, faculty members and others interested we shall gladly send a copy on request.

KOEHRING COMPANY

MILWAUKEE, WISCONSIN

Manufacturers of Pavers, Mixers—Gasoline Shovels, Cranes and Draglines





International Newsreel

Viewing a Timken railroad bearing application on display in the baggage car of the "Pioneer Limited." From left to right: President H. E. Byram of the Milwaukee Road; Mr. H. H. Timken, President of The Timken Roller Bearing Company; Mr. J. T. Gillick, Chief Operating Officer of the railroad; General Passenger Agent W. B. Dixon; and the Engineer of the train, Mr. Nicholas Kaiser

Railroad History in the Making

A new epoch in railroad history started when the "Pioneer Limited" and the "Olympian" of the C. M. & St. Paul R. R. entered regular service with every car on Timken Bearings.

Never before, anywhere in the world, have any anti-friction bearings been used throughout any Pullman train. These famous flyers of the Milwaukee Road are destined to make momentous and enduring railroad history.

The 88% reduction in starting load due to friction elimination only begins to express the value of Timken-equipped car journals. Elim-

inating wear, hot boxes, and by far the greater part of lubrication costs, Timken Bearings with their tapered design, Timken-made Electric Steel and *POSITIVELY ALIGNED ROLLS* have brought a new day in railroading.

As in every other field of engineering, Timken Tapered Roller Bearings are effecting both mechanical and economic improvement. The use of Timken Tapered Roller Bearings has come to be a proof of sound, progressive design. That is why Timkens are of vital concern to all engineers of the future.

THE TIMKEN ROLLER BEARING COMPANY, CANTON, OHIO

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American Association of Engineers

VOW OF SERVICE

We dedicate ourselves to the service of mankind as members of the Engineering Profession.

We consecrate our professional knowledge and skill to the advancement of human welfare, safety and progress.

As we benefit by the technical knowledge and public esteem won for the Profession by the Engineers who labored in the past, we shall ever strive to augment that heritage before passing it on to the Engineers who are to follow.

We therefore affirm our guiding purpose:

So to live and work as to justify the trust and confi-

dence reposed in the Engineering Profession.

To carry out professional engagements with generous measure of performance, and with fidelity toward those whom we undertake to serve.

To foster a spirit of courteous consideration and fraternal cooperation within the Profession.

To extend encouragement and a helping hand to younger Engineers and to those in need.

To place Service before profit, the honor and standing of the Profession before personal advantage, and the Public Welfare above all other consideration.

Adopted by the American Association of Engineers
At Philadelphia Convention, June 17, 1926.